

December 18, 2009

STORMTECH, LLC
DAVID J MAILHOT
20 BEAVER RD STE 104
WETHERSFIELD CT 06190

Re: Description: STORMWATER DETENTION AND/OR INFILTRATION SYSTEM, ALTERNATE PLBG SYS
Manufacturer: STORMTECH, LLC
Product Name: STORMTECH UNDERGROUND STORMWATER CHAMBERS
Model Number(s): STORMTECH SC-310 CHAMBER
Product File No: 20090374

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of APRIL 2015.**

This approval is contingent upon compliance with the following stipulation(s):

- This product must be installed in accordance with the manufacturer's printed instructions, product approval and the plan approval. If there is a conflict between the manufacturer's instructions and the plan approval, the plan approval will take precedence.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. Comm 82.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- This product must be permanently labeled identifying the manufacturer and model number (StormTech SC-740).
- When this product is installed as a subsurface detention/infiltration system or an infiltration system, the design and installation must be in accordance with the manufacturer's printed Design Manual (S070104HP-5) and Installation Instructions (S081203R-6), ch. Comm 82 and its Plan approval under s. Comm 82.20. When there is a conflict between manufacturer's installation instructions and plan approval or product approval stipulations, the plan approval or product approval stipulations will take precedence.
- When this product is installed as a subsurface detention system, the installation must be in accordance with the manufacturer's printed Design Manual (S070104HP-5), Installation Instructions (S081203R-6), liner instructions (S140404-0) and Tech Sheet #2 (rev. 9/9/04), ch. Comm 82, plan approval under s. Comm 82.20 and product approval stipulations. When there is a conflict between manufacturer's installation instructions and plan approval or product approval stipulations, the plan approval or product approval stipulations will take precedence.
- The installation of waterproof membranes must be either PVC or linear low density polyethylene (LLDPE) material having a minimum 30 mil thickness with all seams sealed. PVC membrane seams must be sealed using solvent cement. LLDPE membrane seams must be sealed using thermal welding.

- Inspection and maintenance of this product must be performed at intervals specified by the manufacturer (S070104HP-5) or in accordance plan approval or s. Comm 82.21, whichever is more restrictive.
- This product is approved for the following uses, as specified in Table Comm 82.70-1:
 - Stormwater and clearwater subsurface detention system,
 - Stormwater and clearwater subsurface infiltration system, or
 - Stormwater and clearwater subsurface detention/infiltration system
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- When used as a stormwater and clearwater subsurface infiltration system, this product may be installed without a waterproof membrane for use as under the following conditions:
 1. **The requirements contained in WDNR TECHNICAL STANDARD for Site Evaluation for Stormwater Infiltration (SOC 1002 rev. 02/04); see <http://dnr.wi.gov/runoff/pdf/stormwater/techstds/post/dnr1002-Infiltration.pdf>**
 2. The soils on which that detention system is placed have a maximum soil application rate of 0.2 gallons/square foot/day based upon morphological soil evaluation as listed in Comm Table 83.44-2 under the column for BOD5 and TSS > 30mg/L; and
 3. A geotextile fabric that meets the chamber manufacturer's specifications is placed on the bottom of the product is required.
- When this product is installed as a subsurface detention system, the installation must be in accordance with the manufacturer's printed instructions. When there is a conflict between the manufacturer's installation instructions and plan approval or product approval stipulations, the plan approval or product approval stipulations will take precedence.

Sizing of piping for stormwater and clearwater subsurface detention shall be made using hydraulic calculations as specified in manufacturer's instructions.

- Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling method, such as outlined in Method for Predicting the Efficiency of Proprietary Storm Water Sedimentation Devices (1006) for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage. For particle size distribution, in SLAMM use file: NURP.cpz.
For a copy of this standard, see:
http://dnr.wi.gov/runoff/pdf/stormwater/techstds/prop_devices_std_v2_051408.pdf
- Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling analysis for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage for both TSS and O&G. For particle size distribution, use the EPA-NURP (National Urban Runoff Program) distribution.
- **Written approval for the plumbing plans shall be obtained from the department for each installation of this system. If the project is located within the city of Milwaukee or another agent having plumbing stormwater review status, plans may be submitted to either the department or to the agent municipality; see <http://commerce.wi.gov/SB/SB-PlumbingAgentMunis.html> .**

This approval supersedes the approval issued on 4/30/2007 under product file number 20040643.

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This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20040643.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
Engineering Consultant--Plumbing Product Reviewer
Commerce; Safety & Buildings Div.
PO Box 2658
201 W Washington Ave.
Madison WI 53703-2658
Phone: 608-266-0955; Fax: 608-283-7456
E-mail: Jean.MacCubbin@wisconsin.gov